SEQUENCE LISTING

<110> MAHESWARAN, SHYAMALA
     DONAHOE, PATRICIA K.

<120> USE OF MULLERIAN INHIBITING SUBSTANCE AND INTERFERON
     FOR TREATING TUMORS

<130> 030258-059211

<140> 10/646,784
<141> 2003-08-25

<150> 60/405,305
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<170> PatentIn Ver. 3.3

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Thr Arg Tyr Leu Val Leu Ala Val Asp Arg Pro Ala Gly Ala Trp Arg
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Gly Ser Gly Leu Ala Leu Thr Leu Gln Pro Arg Gly Glu Asp Ser Arg
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Pro Phe Leu Glu Thr Leu Thr Arg Leu Val Arg Ala Leu Arg Val Pro
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Glu Arg Leu Leu Asp Gly Glu Glu Pro Leu Leu Leu Leu Leu Arg Pro
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Glu Thr Tyr Gln Ala Asn Asn Cys Gln Gly Val Cys Gly Trp Pro Gln
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Gly Ala Leu Ser Ala Tyr Glu Gln Ala Phe Leu Gly Ala Val Gln Arg
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Gly Asp Arg Gln Ala Ala Leu Pro Ser Leu Arg Arg Leu Gly Ala Trp
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Pro Gly Pro Glu Val Thr Val Thr Arg Ala Gly Leu Pro Gly Ala Gln
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Ser Leu Cys Pro Ser Arg Asp Thr Arg Tyr Leu Val Leu Ala Val Asp
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Arg Pro Ala Gly Ala Trp Arg Gly Ser Gly Leu Ala Leu Thr Leu Gln
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Pro Arg Gly Glu Asp Ser Arg Leu Ser Thr Ala Arg Leu Gln Ala Leu
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Glu Ser Pro Pro Ser Ala Asp Pro Phe Leu Glu Thr Leu Thr Arg Leu
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Ala Leu Leu Arg Pro Gly Thr Pro Arg Glu Glu Val Phe Ser Thr Ser
         20   25   30

Ala Leu Pro Arg Glu Gln Ala Thr Gly Ser Gly Ala Leu Ile Phe Gln
         35   40   45

Gln Ala Trp Asp Trp Pro Leu Ser Ser Leu Trp Leu Pro Gly Ser Pro
     50   55   60

Leu Asp Pro Leu Cys Leu Val Thr Leu His Gly Ser Gly Asn Gly Ser
65   70   75   80

Arg Ala Pro Leu Arg Val Val Gly Val Leu Ser Ser Tyr Glu Gln Ala
         85   90   95

Phe Leu Glu Ala Val Arg Arg Thr His Trp Gly Leu Ser Asp Leu Thr
         100   105   110

Thr Phe Ala Val Cys Pro Ala Gly Asn Gly Gln Pro Val Leu Pro His
         115   120   125

```
Leu Gln Arg Leu Gln Ala Trp Leu Gly Glu Pro Gly Gly Arg Trp Leu
    130             135             140
```

```
Val Val Leu His Leu Glu Glu Val Thr Trp Glu Pro Thr Pro Leu Leu
145             150             155             160
```

```
Arg Phe Gln Glu Pro Pro Pro Gly Gly Ala Ser Pro Pro Glu Leu Ala
            165             170             175
```

```
Leu Leu Val Val Tyr Pro Gly Pro Gly Leu Glu Val Thr Val Thr Gly
            180             185             190
```

```
Ala Gly Leu Pro Gly Thr Gln Ser Leu Cys Leu Thr Ala Asp Ser Asp
        195             200             205
```

```
Phe Leu Ala Leu Val Val Asp His Pro Glu Gly Ala Trp Arg Arg Pro
    210             215             220
```

```
Gly Leu Ala Leu Thr Leu Arg Arg Arg Gly Asn Gly Ala Leu Leu Ser
225             230             235             240
```

```
Thr Ala Gln Leu Gln Ala Leu Leu Phe Gly Ala Asp Ser Arg Cys Phe
            245             250             255
```

```
Thr Arg Lys Thr Pro Ala Leu Leu Leu Leu Leu Pro Ala Arg Ser Ser
            260             265             270
```

```
Ala Pro Met Pro Ala His Gly Arg Leu Asp Leu Val Pro Phe Pro Gln
        275             280             285
```

```
Pro Arg Ala Ser Pro Glu Pro Glu Glu Ala Pro Pro Ser Ala Asp Pro
    290             295             300
```

```
Phe Leu Glu Thr Leu Thr Arg Leu Val Arg Ala Leu Ala Gly Pro Pro
305             310             315             320
```

```
Ala Arg Ala Ser Pro Pro Arg Leu Ala Leu Asp Pro Gly Ala Leu Ala
            325             330             335
```

```
Gly Phe Pro Gln Gly Gln Val Asn Leu Ser Asp Pro Ala Ala Leu Glu
            340             345             350
```

```
Arg Leu Leu Asp Gly Glu Glu Pro Leu Leu Leu Leu Pro Pro Thr
        355             360             365
```

```
Ala Ala Thr Thr Gly Val Pro Ala Thr Pro Gln Gly Pro Lys Ser Pro
    370             375             380
```

```
Leu Trp Ala Ala Gly Leu Ala Arg Arg Val Ala Ala Glu Leu Gln Ala
385             390             395             400
```

```
Val Ala Ala Glu Leu Arg Ala Leu Pro Gly Leu Pro Pro Ala Ala Pro
            405             410             415
```

```
Pro Leu Leu Ala Arg Leu Leu Ala Leu Cys Pro Gly Asn Pro Asp Ser
            420             425             430
```

```
Pro Gly Gly Pro Leu Arg Ala Leu Leu Leu Leu Lys Ala Leu Gln Gly
        435             440             445

Leu Arg Ala Glu Trp Arg Gly Arg Glu Arg Ser Gly Ser Ala Arg Ala
    450             455             460

Gln Arg Ser Ala Gly Ala Ala Ala Ala Asp Gly Pro Cys Ala Leu Arg
465             470             475             480

Glu Leu Ser Val Asp Leu Arg Ala Glu Arg Ser Val Leu Ile Pro Glu
            485             490             495

Thr Tyr Gln Ala Asn Asn Cys Gln Gly Ala Cys Gly Trp Pro Gln Ser
        500             505             510

Asp Arg Asn Pro Arg Tyr Gly Asn His Val Val Leu Leu Leu Lys Met
        515             520             525

Gln Ala Arg Gly Ala Thr Leu Ala Arg Pro Pro Cys Cys Val Pro Thr
    530             535             540

Ala Tyr Thr Gly Lys Leu Leu Ile Ser Leu Ser Glu Glu Arg Ile Ser
545             550             555             560

Ala His His Val Pro Asn Met Val Ala Thr Glu Cys Gly Cys Arg
            565             570             575


<210> 8
<211> 551
<212> PRT
<213> Bos taurus

<400> 8
Arg Glu Glu Val Phe Ser Thr Ser Ala Leu Pro Arg Glu Gln Ala Thr
  1           5               10              15

Gly Ser Gly Ala Leu Ile Phe Gln Gln Ala Trp Asp Trp Pro Leu Ser
            20              25              30

Ser Leu Trp Leu Pro Gly Ser Pro Leu Asp Pro Leu Cys Leu Val Thr
        35              40              45

Leu His Gly Ser Gly Asn Gly Ser Arg Ala Pro Leu Arg Val Val Gly
    50              55              60

Val Leu Ser Ser Tyr Glu Gln Ala Phe Leu Glu Ala Val Arg Arg Thr
65              70              75              80

His Trp Gly Leu Ser Asp Leu Thr Thr Phe Ala Val Cys Pro Ala Gly
            85              90              95

Asn Gly Gln Pro Val Leu Pro His Leu Gln Arg Leu Gln Ala Trp Leu
        100             105             110

Gly Glu Pro Gly Gly Arg Trp Leu Val Val Leu His Leu Glu Glu Val
    115             120             125
```

Thr Trp Glu Pro Thr Pro Leu Leu Arg Phe Gln Glu Pro Pro Pro Gly
    130   135   140

Gly Ala Ser Pro Pro Glu Leu Ala Leu Leu Val Val Tyr Pro Gly Pro
145   150   155   160

Gly Leu Glu Val Thr Val Thr Gly Ala Gly Leu Pro Gly Thr Gln Ser
            165   170   175

Leu Cys Leu Thr Ala Asp Ser Asp Phe Leu Ala Leu Val Val Asp His
            180   185   190

Pro Glu Gly Ala Trp Arg Arg Pro Gly Leu Ala Leu Thr Leu Arg Arg
        195   200   205

Arg Gly Asn Gly Ala Leu Leu Ser Thr Ala Gln Leu Gln Ala Leu Leu
    210   215   220

Phe Gly Ala Asp Ser Arg Cys Phe Thr Arg Lys Thr Pro Ala Leu Leu
225   230   235   240

Leu Leu Leu Pro Ala Arg Ser Ser Ala Pro Met Pro Ala His Gly Arg
            245   250   255

Leu Asp Leu Val Pro Phe Pro Gln Pro Arg Ala Ser Pro Glu Pro Glu
            260   265   270

Glu Ala Pro Pro Ser Ala Asp Pro Phe Leu Glu Thr Leu Thr Arg Leu
        275   280   285

Val Arg Ala Leu Ala Gly Pro Pro Ala Arg Ala Ser Pro Pro Arg Leu
    290   295   300

Ala Leu Asp Pro Gly Ala Leu Ala Gly Phe Pro Gln Gly Gln Val Asn
305   310   315   320

Leu Ser Asp Pro Ala Ala Leu Glu Arg Leu Leu Asp Gly Glu Glu Pro
            325   330   335

Leu Leu Leu Leu Leu Pro Pro Thr Ala Ala Thr Thr Gly Val Pro Ala
            340   345   350

Thr Pro Gln Gly Pro Lys Ser Pro Leu Trp Ala Ala Gly Leu Ala Arg
        355   360   365

Arg Val Ala Ala Glu Leu Gln Ala Val Ala Ala Glu Leu Arg Ala Leu
    370   375   380

Pro Gly Leu Pro Pro Ala Ala Pro Pro Leu Leu Ala Arg Leu Leu Ala
385   390   395   400

Leu Cys Pro Gly Asn Pro Asp Ser Pro Gly Gly Pro Leu Arg Ala Leu
            405   410   415

Leu Leu Leu Lys Ala Leu Gln Gly Leu Arg Ala Glu Trp Arg Gly Arg
        420   425   430

Glu Arg Ser Gly Ser Ala Arg Ala Gln Arg Ser Ala Gly Ala Ala Ala
        435   440   445

Ala Asp Gly Pro Cys Ala Leu Arg Glu Leu Ser Val Asp Leu Arg Ala
        450   455   460

Glu Arg Ser Val Leu Ile Pro Glu Thr Tyr Gln Ala Asn Asn Cys Gln
465   470   475   480

Gly Ala Cys Gly Trp Pro Gln Ser Asp Arg Asn Pro Arg Tyr Gly Asn
                485   490   495

His Val Val Leu Leu Leu Lys Met Gln Ala Arg Gly Ala Thr Leu Ala
            500   505   510

Arg Pro Pro Cys Cys Val Pro Thr Ala Tyr Thr Gly Lys Leu Leu Ile
        515   520   525

Ser Leu Ser Glu Glu Arg Ile Ser Ala His His Val Pro Asn Met Val
        530   535   540

Ala Thr Glu Cys Gly Cys Arg
545   550

<210> 9
<211> 109
<212> PRT
<213> Bos taurus

<400> 9
Ser Ala Gly Ala Ala Ala Ala Asp Gly Pro Cys Ala Leu Arg Glu Leu
  1   5   10   15

Ser Val Asp Leu Arg Ala Glu Arg Ser Val Leu Ile Pro Glu Thr Tyr
            20   25   30

Gln Ala Asn Asn Cys Gln Gly Ala Cys Gly Trp Pro Gln Ser Asp Arg
            35   40   45

Asn Pro Arg Tyr Gly Asn His Val Val Leu Leu Leu Lys Met Gln Ala
        50   55   60

Arg Gly Ala Thr Leu Ala Arg Pro Pro Cys Cys Val Pro Thr Ala Tyr
65   70   75   80

Thr Gly Lys Leu Leu Ile Ser Leu Ser Glu Glu Arg Ile Ser Ala His
                85   90   95

His Val Pro Asn Met Val Ala Thr Glu Cys Gly Cys Arg
                100   105

<210> 10
<211> 327
<212> DNA
<213> Bos taurus

<400> 10

```
agcgccgggg ccgcggctgc agacgggccg tgcgctctgc gtgagctgag cgtagacctg 60
cgggccgagc gctcggtgct catccccgag acataccagg ccaacaactg ccaggggggcc 120
tgcggctggc ctcagtcgga ccgcaacccg cgctacggca accacgtggt gctgctgcta 180
aagatgcagg cccgcggcgc caccctggcg cgcccgccct gctgtgtgcc cacagcctac 240
accggcaagc tcctcatcag cctgtccgag gagcgcatca gtgcgcacca cgtcccaaac 300
atggtggcca ccgaatgcgg ctgccgg 327
```

<210> 11
<211> 109
<212> PRT
<213> Homo sapiens

<400> 11

```
Ser Ala Gly Ala Thr Ala Ala Asp Gly Pro Cys Ala Leu Arg Glu Leu
 1               5                   10                  15

Ser Val Asp Leu Arg Ala Glu Arg Ser Val Leu Ile Pro Glu Thr Tyr
            20                  25                  30

Gln Ala Asn Asn Cys Gln Gly Val Cys Gly Trp Pro Gln Ser Asp Arg
        35                  40                  45

Asn Pro Arg Tyr Gly Asn His Val Val Leu Leu Leu Lys Met Gln Ala
    50                  55                  60

Arg Gly Ala Ala Leu Ala Arg Pro Pro Cys Cys Val Pro Thr Ala Tyr
 65                  70                  75                  80

Ala Gly Lys Leu Leu Ile Ser Leu Ser Glu Glu Arg Ile Ser Ala His
            85                  90                  95

His Val Pro Asn Met Val Ala Thr Glu Cys Gly Cys Arg
            100                 105
```

<210> 12
<211> 327
<212> DNA
<213> Homo sapiens

<400> 12

```
agcgcggggg ccaccgccgc cgacgggccg tgcgcgctgc gcgagctcag cgtagacctc 60
cgcgccgagc gctccgtact catccccgag acctaccagg ccaacaattg ccagggcgtg 120
tgcggctggc ctcagtccga ccgcaacccg cgctacggca accacgtggt gctgctgctg 180
aagatgcagg cccgtggggc cgccctggcg cgcccaccct gctgcgtgcc caccgcctac 240
gcgggcaagc tgctcatcag cctgtcggag gaacgcatca gcgcgcacca cgtgcccaac 300
atggtggcca ccgagtgtgg ctgccgg 327
```